

PATENT COOPERATION TREATY

PCT

INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 0303535-9	Country or Office of filing SE	Applicant's or agent's file reference 9589SE
Filing date (day/month/year) 22 December 2003		(Earliest) Priority Date (day/month/year)
Applicant ABB AS		

Date of request for international-type search 22 December 2003	International-type search request No. SE 03/01076
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This international-type search report has been prepared by this International Searching Authority and is transmitted to the applicant.

This international-type search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international-type search was carried out on the basis of the application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international-type search was carried out on the basis of a translation of the application furnished to this Authority.

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II).

3. ☐ Unity of invention is lacking (See Box No. III).

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Search request No.

SE 03/01076

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B25J 9/16, G05B 18/418, G05B 19/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B25J, G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3654616 A (DUNNE, M J ET AL), 4 April 1972 (04.04.1972), column 3, line 7 - line 26; column 4, line 18 - line 29; column 5, line 11 - line 51, column 9, line 16 - line 31; column 9, line 44 - line 53, figure 1-3, abstract	1
Y	--	2-44
Y	US 6347253 B1 (FUJITA, N ET AL), 12 February 2002 (12.02.2002), column 1, line 55 - line 67; column 4, line 13 - line 54, figures 1-4, abstract	2-44
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☒ Further documents are listed in the continuation of Box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search

29 June 2004

Date of mailing of the international-type search report

2004-07-07

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003050734 A1 (LAPHAM, J R), 13 March 2003 (13.03.2003), [0027]-[0029]; [0045]; [0052]-[0056], figure 1, abstract --	2-44
A	EP 0178727 A2 (N V PHILIPS GLOELAMPENFABRIEKEN), 23 April 1986 (23.04.1986), whole document --	1-44
A	EP 0512866 A1 (SHINKO ELECTRIC CO LTD), 11 November 1992 (11.11.1992), whole document -- -----	1-44

INTERNATIONAL-TYPE SEARCH REPORT

Information on patent family members

30/04/2004

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US	3654616	A	04/04/1972	NONE		
US	6347253	B1	12/02/2002	JP	11039018 A	12/02/1999
US	2003050734	A1	13/03/2003	US	6675070 B	06/01/2004
				CA	2433503 A	11/07/2002
				CN	1484807 T	24/03/2004
				EP	1352357 A	15/10/2003
				US	6442451 B	27/08/2002
				US	2002087232 A	04/07/2002
				WO	02054329 A	11/07/2002
EP	0178727	A2	23/04/1986	IT	1176941 B	18/08/1987
				IT	8423119 D	00/00/0000
EP	0512866	A1	11/11/1992	DE	69209138 D,T	01/08/1996
				JP	2884816 B	19/04/1999
				JP	5053187 U	13/07/1993
				JP	5073142 A	26/03/1993
				KR	189680 B	01/06/1999
				US	5329450 A	12/07/1994